

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-327693

(43)Date of publication of application : 29.11.1994

(51)Int.Cl.

A61B 17/36

(21)Application number : 06-095300

(71)Applicant : SIEMENS AG

(22)Date of filing : 09.05.1994

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(30)Priority

Priority number : 93 4315282    Priority date : 07.05.1993    Priority country : DE

## (54) PAIN ALLEVIATING APPARATUS

(57)Abstract:

**PURPOSE:** To provide an acoustic pressure impulse source for applying acoustic pressure impulse to a painful region.

**CONSTITUTION:** Acoustic pressure impulse source 1 is applied to a patient. Specifically, it is applied to make it possible to treat a painful region shown in the cross section of the body of a patient with the impulse applied to the surface of the body by an elastic bonding film 2 while using a supersonic positioning device. Pressure impulse source 1 has a casing 5, and impulse generator 6 is provided to one end thereof. Sound collection lens 7 is placed before impulse generator 6 for focusing planar impulse. Further, the energy density pressure impulse source 1 is in a range of 0.05 to 0.6 mJ/mm<sup>2</sup>, peak pressure of acoustic pressure impulse of 50 to 70 bar, and the number of pressure impulses applied continuously to the painful region should not be less than 50.

